

# **SECARB-Ed**

## ***Southeast Regional CO<sub>2</sub> Sequestration Technology Training Program***

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**Presented to:**  
**RCSP**

Annual Review Meeting  
Pittsburgh, Pennsylvania  
October 2010

**Presented by:**  
Kathryn Baskin  
Managing Director



# SECARB-Ed

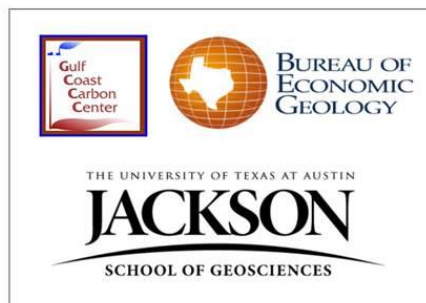
## *Southeast Regional CO<sub>2</sub> Sequestration Technology Training Program*

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This material is based upon work supported by the

U.S. Department of Energy National Energy Technology Laboratory.



Cost share and research support provided by SECARB-Ed Partners.

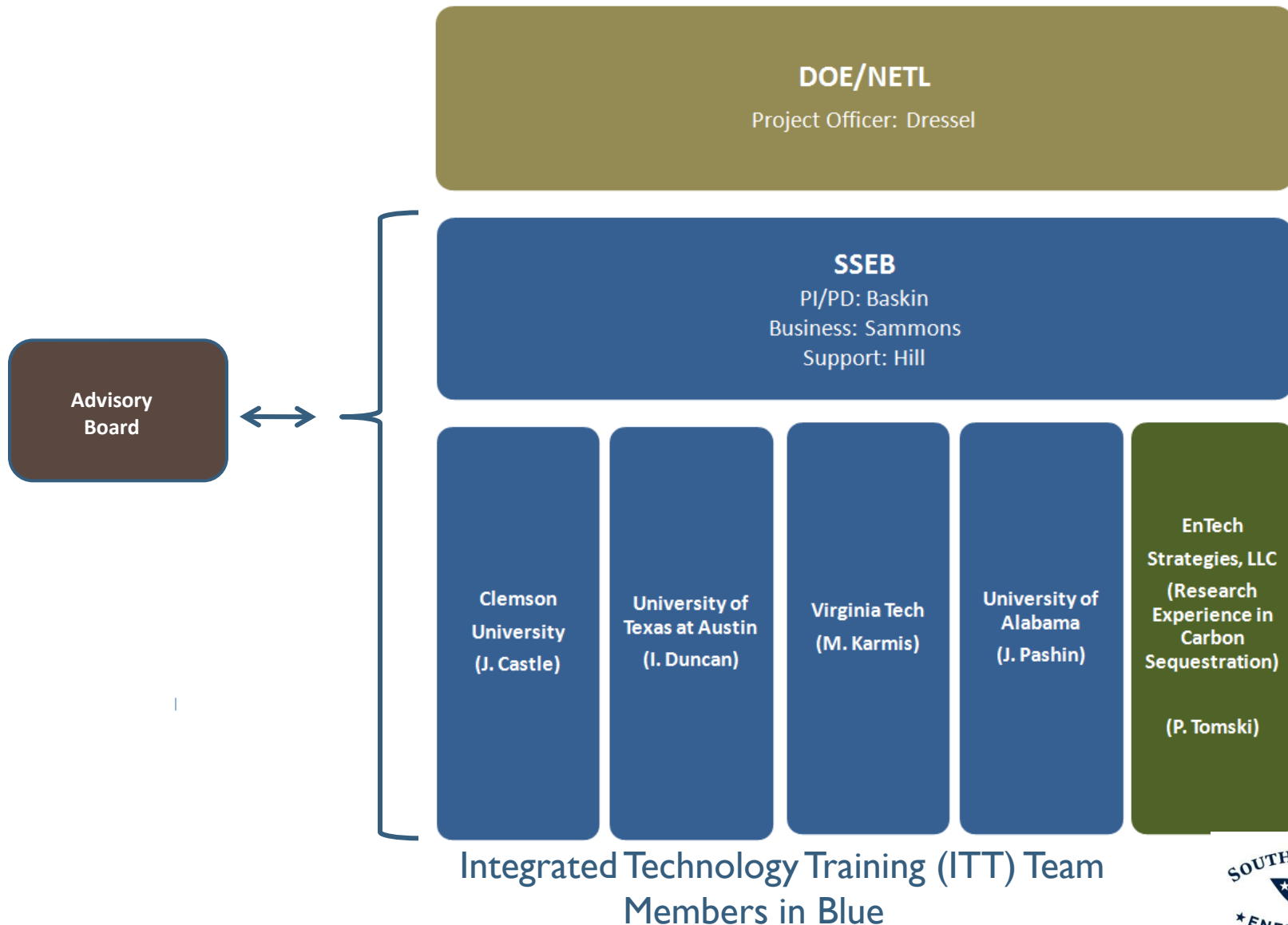


# Purpose, Duration & Investment

- **Purpose:** Develop a self-sustaining regional CO<sub>2</sub> sequestration training program to facilitate the transfer of knowledge and technologies required for site development, operations and monitoring of commercial CCS projects.
- **Objectives:**
  - Implement sponsorship development program
  - Develop short courses on CCS technologies
  - Conduct regional training and other activities through outreach and networking
  - Perform region/basin technology transfer services
- **Duration:** 36 months (Began November 2009)
- **Initial Investment (ARRA Funding):**

Total Federal Funds	Total Non-federal Funds	Total Project Cost	Cost-share Percentage
\$994,368.00	\$167,126.00	\$1,161,494.00	14%

# SECARB-Ed Organization



## Southern States Energy Board

GHG  
Fundamentals

Legal,  
Regulatory,  
Institutional

CO<sub>2</sub>  
Transportation

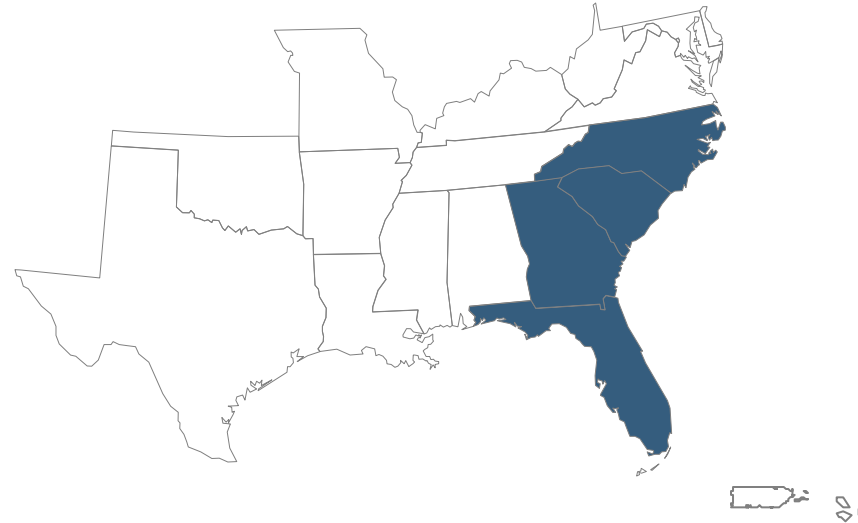
# CCS Topics by Partner

## Clemson University

CO<sub>2</sub> Capture

Treatment &  
Compression

Produced  
Water  
Treatment



**Course Name:** Introduction to Carbon Sequestration

**Anticipated Course Date:** April 2011 (to be held on date immediately before or after annual Clemson Hydrogeology Symposium, which is scheduled for April 7, 2011)

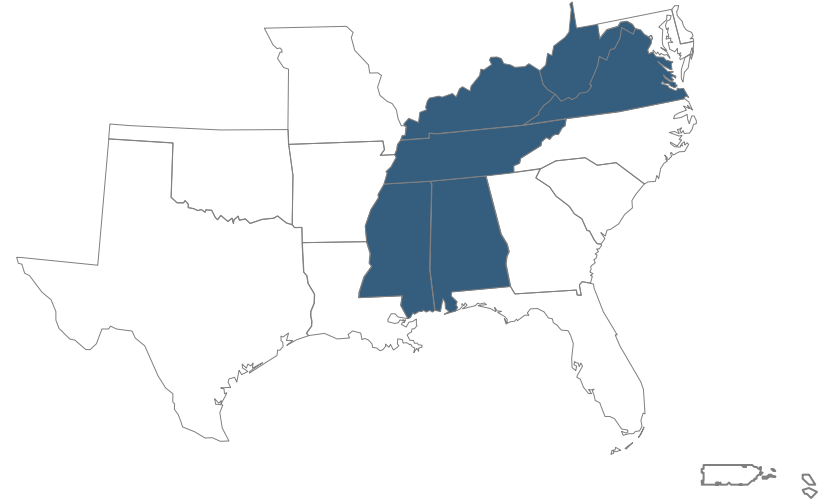
# CCS Topics by Partner

## Virginia Tech & Geological Survey of Alabama

Coal & Shale

Coalbed  
Methane

Related MVA



**Course Name:** Carbon Sequestration in Unmineable Coal Seams and Shale Reservoirs

**Anticipated Course Dates:** Friday, October 15, 2010

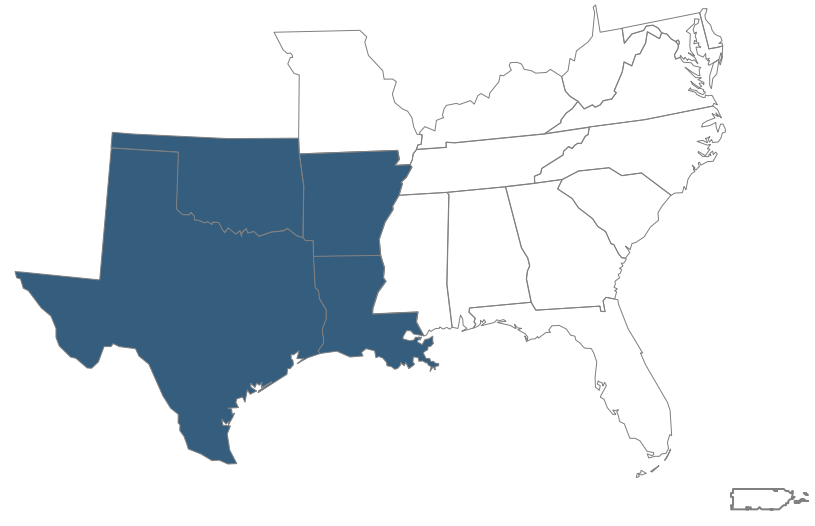
# CCS Topics by Partner

The University of Texas,  
Bureau of Economic Geology

Saline

Oil & Gas

Related MVA



**Course Name:** Potential for CO<sub>2</sub> Sequestration Project Development: Sandstone Reservoirs in the Gulf Coast

**Anticipated Course Dates:** October and November 2010



## EnTech Strategies

"Research Experience in Carbon Sequestration"  
in the Southeast



**Course Name:** Research Experience in Carbon Sequestration (RECS) 2011  
**Anticipated Course Dates:** May 2011

# Advisory Board

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Comprised of key sponsors and recognized CCS authorities, the advisory board provides direction for the business model and guides the development of high quality training materials and an effective outreach and education program.



Ms. Kathryn Baskin



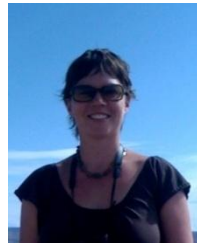
Mr. Brian Dressel



Dr. Jerry Hill



Dr. Michael Karmis



Ms. Pamela Tomski



Dr. Jim Castle



Dr. Ian Duncan



Dr. Jack Pashin

# **Management & Coordination (SSEB)**

- Manage the SECARB-Ed project and coordinate team activities and CCS module development
- Guide CEU/PDU development/certification and technology training implementation
- Support functions of the Advisory Board, secure sponsorship and implement a marketing strategy
- Interface with other regional sequestration technology training teams and DOE-NETL
- Manage CCS newsletters, website content, email alerts, project services and deliverables

# **Technology Training Plan**

The ***Technology Training Plan*** includes:

- Short courses and other planned CCS events to be developed and experts who will collaborate in development
- Content of short courses and other events
- Plans for revisions of courses based on feedback from participants
- Initial proposed timeframe to implement courses and other events
- Identification of organizations and verification that courses to be taught are in the process of being registered for Professional Development Units (PDUs) and Continuing Education Units (CEUs.)

# Sponsorship Development and Marketing Plan

Key elements of the ***Sponsorship Plan*** include the following:

- There must be value added for the sponsor.
- The sponsor must be willing to contribute financial and intellectual resources.
- Training needs can be expanded for components of the CCS value chain.
- Training needs can be served outside that southeast region.



The ***Marketing Plan*** is composed of four strategic elements:

- Training Partners
- Advisory Board
- Sponsorship.
- Methods of Delivery for
- Technology Training



## Professional Development Hours

- ***Carbon Capture and Storage*** – The Way Ahead at 2010 Spring Meeting of the Central Appalachian Section of SME

***60 PDHs***

***80 participants***

***PDHs per Course .75***

- ***Clean Coal Technologies*** Session at the Eastern Coal Council's 31st Annual Conference and Exposition

***170 PDHs***

***68 Participants***

***PDHs per Course 2.5***



## Jobs

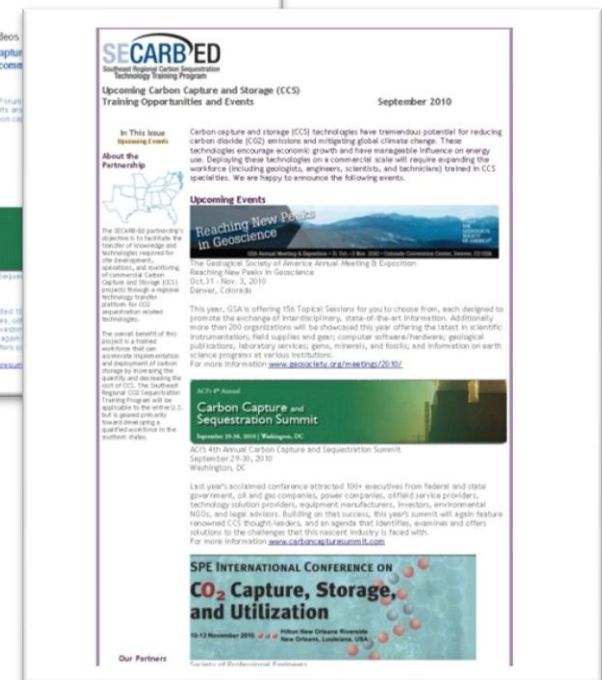
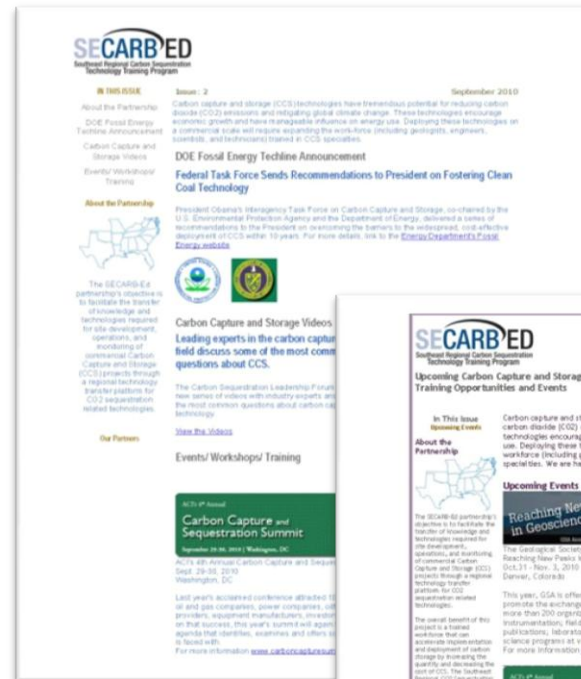
- 1906 work hours = 0.562 FTE or equivalent
- Diverse Disciplines from Administrative, Sciences, Engineering and Economics
- .5 FTE Staff Geologist at SSEB/Permanent Position



# E-Alerts and Newsletters

## Quarterly Training Newsletter and E-Alert:

- Summary of upcoming training opportunities
- Material of a technical nature relevant to the SECARB-Ed region
- Results from on-going CCS research
- Public policy updates related to CCS
- Alerts to forthcoming R&D solicitations







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The U.S. Department of Energy (DOE) and its National Energy Technology Laboratory (NETL) has partnered with the Southern States Energy Board (SSEB) and others, from both industry and academia, to develop the Southeast Regional CO<sub>2</sub> Sequestration Training Program (SECARB-Ed) for the southern United States. This will establish a CCS regional training program to facilitate national and global delivery of CCS technologies. SECARB-Ed is one of seven regional technology training programs established by DOE-NETL.

## CARBON CAPTURE & STORAGE TECHNOLOGY + TRAINING

**Carbon capture and storage (CCS) technologies have tremendous potential for reducing CO<sub>2</sub> emissions and mitigating global climate change.**

These technologies encourage economic growth and have manageable influence on energy use. Deploying these technologies on a commercial scale will require expanding the work-force (including geologists, engineers, scientists, and technicians) trained in CCS specialties.

Training of the existing CCS workforce and the development of new professionals can be accomplished through fundamental research and educational opportunities. These CCS technology areas include: simulation and risk assessment; monitoring, verification, and accounting (MVA); development of geological related analytical tools and interpretation methods; methods to interpret geophysical models; well completion; capture and compression technologies; CCS related water use and produced water treatment; integration of capture; transport and storage; public outreach; and integrity of potential reservoirs for long-term CO<sub>2</sub> storage.

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- Website Launch [www.secarb-ed.org](http://www.secarb-ed.org)
- Regional Technology Training Plan Implementation
- Flagship Training Event
- Offer Courses in Conjunction with Professional Conferences

# SECARB-Ed

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